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PATENT APPLICATION
DOCKET NO.: 2869-1001-023

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Richard A. Young and Douglas Young

Application No.: 10/046,649

Group: 1648

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Filed: January 14, 2002

Examiner: Stacy S. Brown

OCT 17 2003

Confirmation No.: 3487

Title: STRESS PROTEINS AND USES THEREFOR

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CERTIFICATE OF MAILING OR TRANSMISSION	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on:	
Date 10.10.03	Signature <i>Jerine Crump</i>
Typed or printed name of person signing certificate Jerine Crump	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

10/16/2003 HROCHA1 00000011 10046649

Sir:

81 FC:1006

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This Information Disclosure Statement is submitted:

- ☐ under 37 CFR 1.129(a), or
(First/Second submission after Final Rejection)
- ☐ under 37 CFR 1.97(b), or
(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).
- ☒ under 37 CFR 1.97(c) together with either:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, or
- ☒ a \$180.00 fee under 37 CFR 1.17(p), or
(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, and
- ☐ a \$180.00 fee under 37 CFR 1.17(p), or
(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)
- ☐ under 37 CFR 1.97(i):
Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.
(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
 - ☒ Copies of the cited references are enclosed.
 - ☐ Since this application was filed after June 30, 2003, copies of issued U.S. patents and published U.S. applications are not required and are not being provided.
 - ☐ Copies of the cited references are enclosed except those entered in prior application, U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]
 - ☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
- ☒ The "concise explanation" requirement (non-English references) for reference(s) **AN4** and **AY8** under 37 CFR 1.98(a)(3) is satisfied by:
 - ☐ the explanation provided on the attached sheet.
 - ☐ the explanation provided in the Specification.
 - ☐ submission of the enclosed International Search Report.
 - ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
- ☒ the enclosed English language abstract.

☒ Applicant requests that the following applications be considered:

Examiner's
Initials

- ____ U.S. Patent Application No. 08/461,720, by Richard A. Young and Douglas Young,
filed June 5, 1995, Docket No.: 2869.1001-002 (ABANDONED)
- ____ U.S. Reexamination Control No. 90/006,418, by Richard A. Young, filed October 22,
2002, Docket No.: ANT-1 (2869.1001-040)
- ____ U.S. Reexamination Control No. 90/006,419, by Richard A. Young, filed October 22,
2002, Docket No.: ANT-2 (2869.1001-041)

Examiner

Date

- ☐ A copy of each above-cited application, including the current claims, is enclosed.
- ☐ A copy of each above-cited application, including the current claims, is enclosed,
except those entered in prior application, U.S. Application No. [], to which
priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating
which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

- ☒ A check for the fee noted above is enclosed. A copy of this Statement is enclosed.
- ☐ Please charge Deposit Account 08-0380 in the amount of \$[]. A copy of this Statement is
enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By


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Dated:

October 10, 2003

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 2869.1001-023		APPLICATION NO. 10/046,649	
 INFORMATION DISCLOSURE CITATION BY AN APPLICATION October 10, 2003 (Use several sheets if necessary)		APPLICANT Richard A. Young, <i>et al.</i>			
		FILING DATE January 14, 2002		CONFIRMATION NO. 3487	GROUP 1648

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME
	AA	4,716,038	29-Dec-87	Stanford, et al.
	AB	4,724,144	9-Feb-88	Rook, et al.
	AC	5,114,844	19-May-92	Cohen, et al.
	AD	5,504,005	2-Apr-96	Bloom, et al.
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	AG	4,918,166	17-Apr-90	Kingsmen, et al.
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	AB2	6,403,099 B1	11-Jun-02	Rappuoli, et al.
	AC2	US-2002-0146426-A1	10-Oct-02	Huang, et al.
	AD2	US-2001-0005713-A1	28-Jun-01	Young
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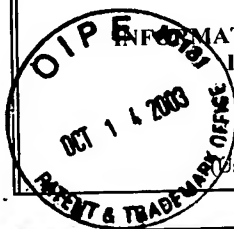
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1648INFORMATION DISCLOSURE CITATION
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
	AL	WO88/00974	11-Feb-88	PCT	
	AM	WO85/05034	21-Nov-85	PCT	
	AN	WO88/05823	11-Aug-88	PCT	
	AO	WO88/06591	7-Sep-88	PCT	
	AP	WO91/02542	7-Mar-91	PCT	
	AQ	WO91/15572	17-Oct-91	PCT	
	AL2	WO 92/08484	29-May-92	PCT	
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	AN2	0 262 710	7-Sep-87	EPO	
	AO2	0 322 990	5-Jul-89	EPO	
	AP2	2 251 186	1-Jul-92	Great Britain	
	AQ2	WO 89/12455	28-Dec-89	PCT	
	AL3	WO 93/17712	16-Sep-93	PCT	
	AM3	WO 94/03208	17-Feb-94	PCT	
	AN3	WO 90/15873	27-Dec-90	PCT	
	AO3	WO 95/31994	30-Nov-95	PCT	
	AP3	WO 95/24923	21-Sep-95	PCT	
	AQ3	WO 94/29459	22-Dec-94	PCT	
	AL4	WO 97/06821	27-Feb-97	PCT	
	AM4	WO 98/23735	4-Jun-98	PCT	
	AN4	WO 97/26910	31-Jul-97	PCT	
	AO4	WO 96/10421	11-Apr-96	PCT	
	AP4	WO 95/24923	21-Sep-95	PCT	
	AQ4	WO 98/35705	20-Aug-98	PCT	
	AL5	WO 99/07860	18-Feb-99	PCT	
	AM5	WO 01/51081	19-Jul-01	PCT	

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Lamb, J.R., et al., "Stress Proteins may Provide a Link Between the Immune Response to Infection and Autoimmunity", <i>Int'l. Immun.</i> , 1(2):191-196 (1989).
AS	Young, R. A., "Stress Proteins and Immunology," <i>Annu. Rev. Immunol.</i> , 8:401-420 (1990).
AT	Lussow, A. R. et al., "Mycobacterial heat-shock proteins as carrier molecules," <i>Eur. J. Immunol.</i> , 21:2297-2302 (1991).
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AW	Del Giudice, G. D., et al., "Priming to Heat Shock Proteins in Infants Vaccinated against Pertussis," <i>J. Immunol.</i> , 150(5):2025-2032 (1993).
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AY	Miller, A. et al., "Immunotherapy in autoimmune diseases," <i>Curr. Opinion in Immun.</i> , 3:936-940 (1991).
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AR2	Elias, D. et al., "Induction and therapy of autoimmune diabetes in the non-obese diabetic (NOD/Lt) mouse by a 65-kDa heat shock protein," <i>Proc. Natl. Acad. Sci. USA</i> , 87:1576-1580 (1990).
AS2	Thole, J. E.R. et al., "Characterization, Sequence Determination, and Immunogenicity of a 64-Kilodalton Protein of Mycobacterium bovis BCG Expressed in Escherichia coli K-12," <i>Infection & Immunol.</i> , 55(6):1466-1475 (1987).
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AU2	Husson, R. N. and Young, R.A., "Genes for the major protein antigens of Mycobacterium tuberculosis: The etiologic agents of tuberculosis and leprosy share an immunodominant antigen," Proc. Natl. Acad. Sci. USA, 84:1679-1683 (1987).
AV2	Young, D. et al., "Stress proteins are immune targets in leprosy and tuberculosis," Proc. Natl. Acad. Sci. USA, 85:4267-4270 (1988).
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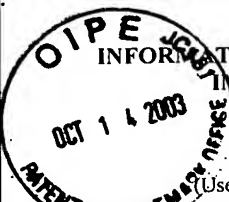
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AS4	Noll, A. and Autenrieti, I.B., "Immunity against Yersinia enterocolitica by Vaccination with Yersinia HSP60 Immunostimulating Complexes or Yersinia HSP60 plus Interleukin-12," Infect. & Immun., 64:2955-2961 (1996).
AT4	Ferrero, R.L. et al., "The GroES homolog of Helicobacter pylori confers protective immunity against mucosal infection in mice," Proc. Natl. Acad. Sci. USA, 92:6499-6503 (1995).
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AV4	Srivastava, P.K. and Udono, H., "Heat shock protein-peptide complexes in cancer immunotherapy," Curr. Opin. Immunol., 6:728-732 (1994).
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AR5	Friedland, J.S. et al., "Mycobacterial 65-kD heat shock protein induces release of proinflammatory cytokines from human monocytic cells," Clin. Exp. Immunol., 91:58-62 (1993).
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AY5	Welch, W.J. and Feramisco, J.R., "Purification of the Major Mammalian Heat Shock Proteins," J. Biol. Chem. 257(24):14949-14959 (1982).
AZ5	Davis, B.D., et al., Microbiology, second edition, Harper & Row, Publishers, pp. 600 & 622.
AR6	Doherty, et al., Evasion of host immune responses by tumours and viruses, "Vaccines against virally induced cancers", Wiley, Chichester (Ciba Foundation Symposium 187), pp. 245-260. See page 245, Abstract.
AS6	Hird, et al., Immunotherapy with Monoclonal Antibodies, Genes and Cancer, Edited by Carney, et al., pp. 183-189, see page 185, first paragraph.

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AT6	Oettgen, H.F. and Old, L.J., "Chapter 6: The History of Cancer Immunotherapy." In Biologic Therapy of Cancer, De Vita, V.T., Hellman, S. and Rosenberg, S.A., eds., (London: J.B. Lippincott) pp. 98-103 (1991).
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AY6	Cassell, W.A., et al., "A Phase II Study on the Postsurgical Management of Stage Malignant Melanoma With a Newcastle Disease Virus Oncolysate," Cancer, 52:856-860 (1983, September).
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AR7	Murray, D.R., et al., "Viral Oncolysate in the Management of Malignant Melanoma, II. Clinical Studies" Cancer, 40:680-686 (1977, August).
AS7	Srivastava, P.K., and Das, M.R., "The Serologically Unique Cell Surface Antigen of Zajdela Ascitic Hepatoma is Also Its Tumor-Associated Transplantation Antigen," Int. J. Cancer, 33:417-422 (1984).
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AW7	Srivastava, P.K. and Old, L.J., "Individually Distinct Transplantation Antigens of Chemically Induced Mouse Tumors," Immunology Today, 9:78-83 (1988, March).

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AX7	Srivastava, P.K. and Maki, R. G., "Stress-Induced Proteins in Immune Response to Cancer," Curr. Top. Microbiol. Immunol., 167:109-123 (1991).
AY7	Falk, R.E., et al., "Cell Mediated Immunity to Human Tumors," Arch. Surg., 107:261-265 (1973, August).
AZ7	McCulloch, P.B., et al., "Recurrent Malignant Melanoma: Effect of Adjuvant Immunotherapy on Survival," Can. Med. Assoc. J., 117:33-36 (1977, July).
AR8	Hagbabin, M., et al., "Immunotherapy with Oral BCG and Serial Immune Evaluation in Childhood Lymphoblastic Leukemia Following Three Years of Chemotherapy," Cancer, 46:2577-2586 (1980, December).
AS8	Pinsky, C.M., et al., "Intravesical Administration of Bacillus Calmette-Guérin in Patients With Recurrent Superficial Carcinoma of the Urinary Bladder: Report of a Prospective, Randomized Trial," Cancer Treat. Rep., 69:47-53 (1985, January).
AT8	Silverstein, A.M., "The History of Immunology," In Fundamental Immunology, 2nd Edition, Paul, W.E., ed., (NY:Raven Press), pp.21, 23-24 (1989).
AU8	Murphy, J.R. and Lefford, M.J., "Host Defenses in Murine Malaria: Induction of a Protracted State of Immunity with a Formalin-Killed Plasmodium berghei Blood Parasite Vaccine," Infect. Immun., 22:798-803 (1978).
AV8	Bertelli, M.S., et al., "BCG-Induced Resistance in Trypanosoma cruzi Experimental Infections," Tropenmed Parasitol, 32:93-96 (1981).
AW8	Jarecki-Black, J.C., et al., "The Effect of BCG-Vaccine Upon Experimental Visceral Leishmaniasis in Hamsters," Ann. Clin. Lab. Sci., 14:464-466 (1984).
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October 10, 2003

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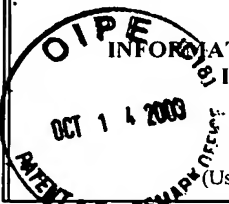
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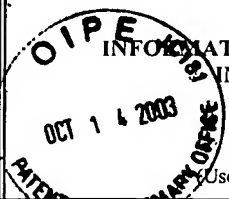
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Richard A. Young, *et al.*

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